



# DISGO

Superior Corrosion Resistance  
Chrome-free Coating



200-250 °C  
Baking

Free from  
Hydrogen  
Embrittlement

SST  
2000 Hours

CCT  
200 Cycles

Environmental-friendly



Completely Chrome-Free



Nihon Ruspert Co., Ltd.



JQA-QMA13679  
JQA-EM6160



CM009



# DISGO

## DISGO

The metal surface treatment which is environmental-friendly, chrome-free and superiorly anti-corrosive.

With the performance of chrome-free and superior anti-corrosion DISGO is developed to prevent the delayed fracture of steel and iron products caused by hydrogen embrittlement.

DISGO consists of 2 coatings, the base coating contains zinc and aluminium flake and the top coating contains aluminium and organic resin.

The treatment of DISGO mainly includes high anti-corrosion type and low curing temperature type.



### Features

#### 01 High anti-corrosion performance

Salt Spray Test 2000 Hours.  
Combined Cycle Test 200 Cycles.  
(High anti-corrosion type)  
Also applicable for SUS.

※ Except for high anti-corrosion type, all the other treatments standard: SST 1000 Hours, CCT 100 Cycles.

#### 02 Free from hydrogen embrittlement especially perfect performance on the surface of high carbon steel

Pickling and electrolytic processes are not necessary, which can eliminate the hydrogen embrittlement problem. DISGO treatment is especially developed for the high tensile strength carbon steel (CRMO or HTSS).

#### 03 Environmental-friendly

Free from the hazardous substances such as hexavalent chromium, trivalent chromium, lead, cadmium, mercury.  
RoHS and REACH compliant

#### 04 Reducing the electrolytic corrosion

Reducing dissimilar metal contact corrosion apparently between the products and aluminum board or plated steel board.

#### 05 Low cure temperature

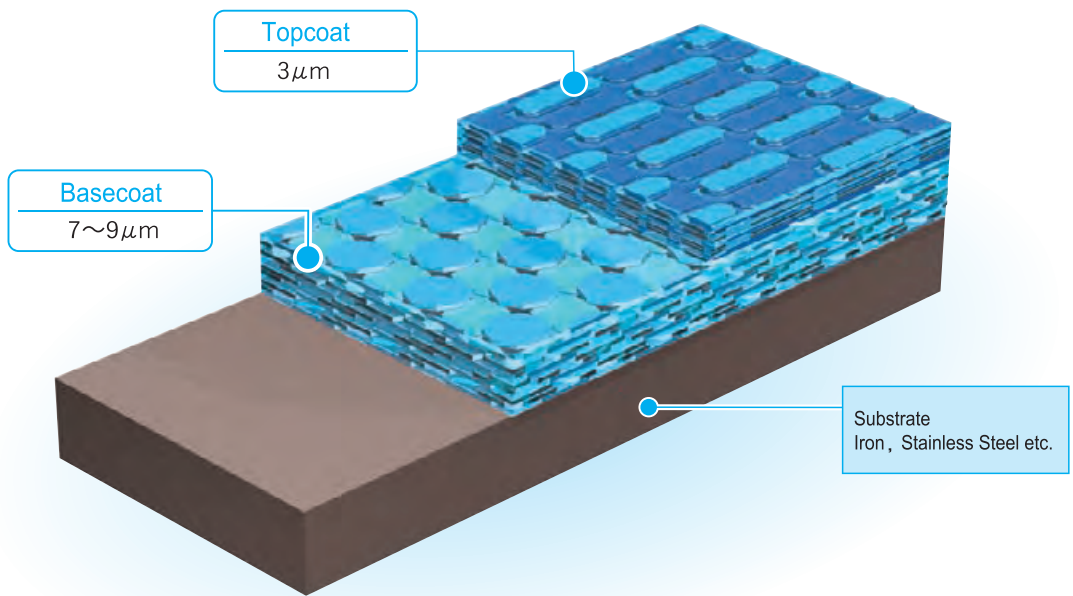
The baking temperature below 200 °C no effect on the physical properties of products.  
Applicable for the carbon steel springs and screws.

#### 06 Controllable coefficient of friction

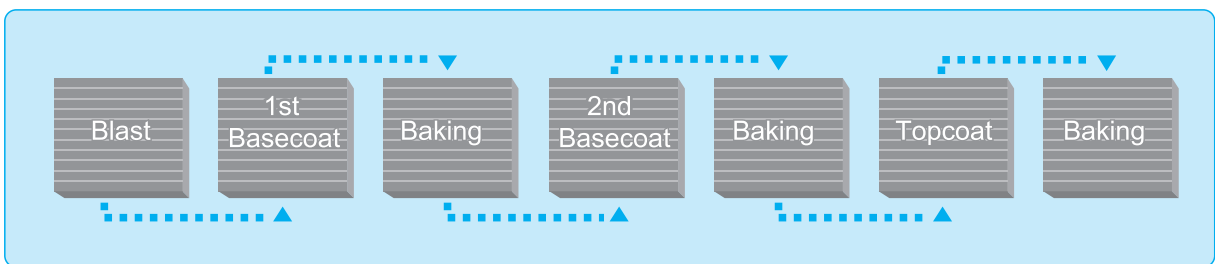
Three types in total, low coefficient of friction type, normal coefficient of friction type and high coefficient of friction.



### Coating film structure



### Standard treatment process (Dip-spin method)



※ Dip&spray or spray is also available depending on the profile of the products.

## Coating Performance

Salt spray test(JIS Z 2371)

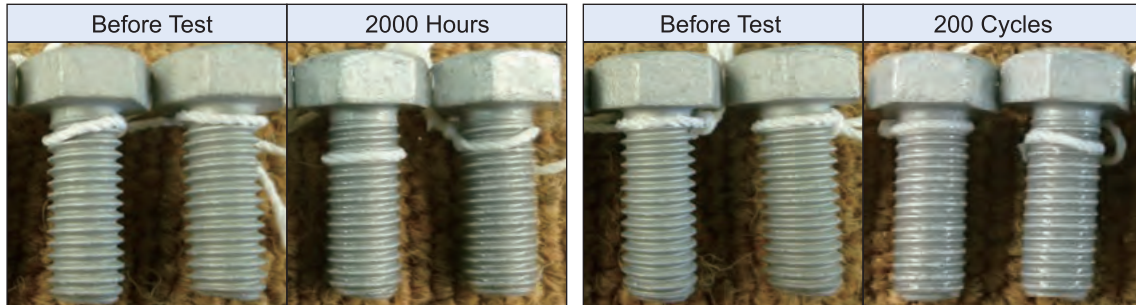
Class 10.9 iron bolt+the treatment of DISGO

2000 Hours (No red rust occurred)

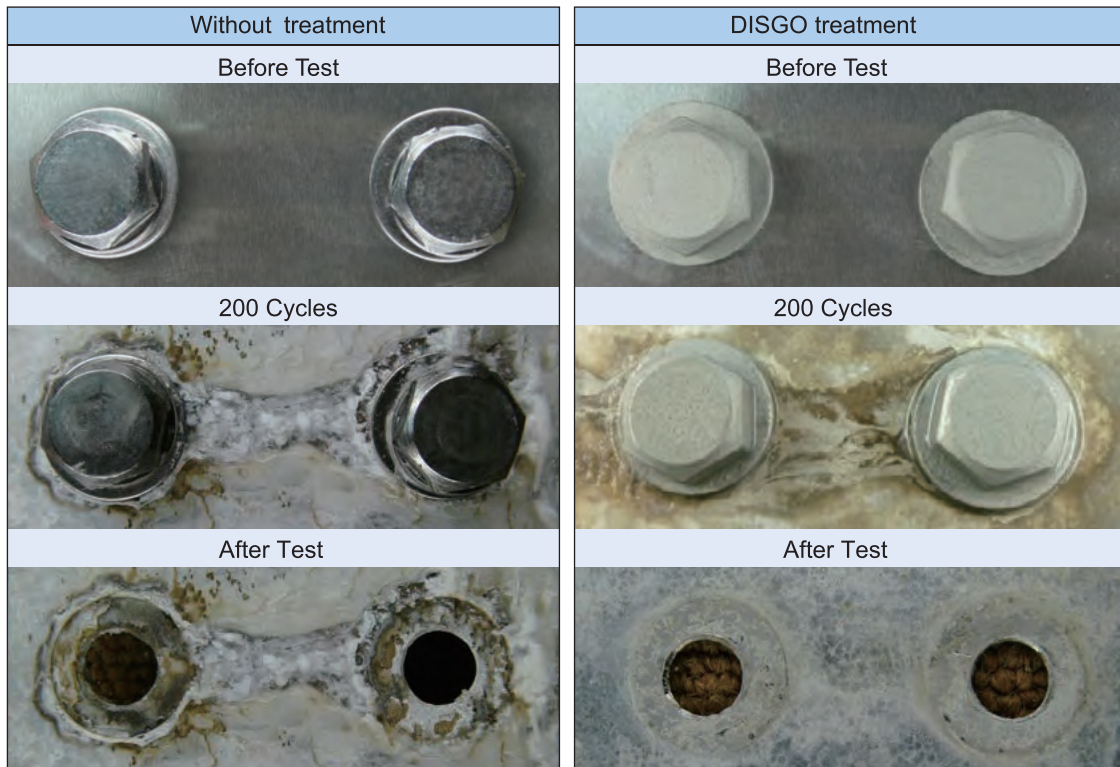
Combined cycle test(JASO M609-91)

Class 10.9 iron bolt+the treatment of DISGO

200 Cycles (No red rust occurred)



Combined cycle test(JASO M609-91)(Electrolytic corrosion test)(Stainless steel bolts tighten into the aluminium board)



Remarks : The experimental data above are the results of tests but the performance may have deviation when used in different conditions.



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